

A. 2  
8/26/87  
150743

AGENDA FOR AUGUST 20, 1987  
BRIEFING ON SAUGET ILLINOIS  
CLEAN WATER ACT COMPLIANCE

I. Background History

A. The Regionalization Concept

1. 1968 Enforcement Conference
2. 1972 Southwestern Illinois Metropolitan Area Planning Commission Report
3. 1976 Metcalf and Eddy study recommendations
  - a. existing primary plants for the City of East St. Louis and Metro East Sanitary District be abandoned;
  - b. regional plant be designed and constructed for primary and secondary treatment for the Village of Cahokia, most of East St. Louis, most of the Commonfields of Cahokia and provide secondary treatment for wastewater effluent from the Sauget Physical/Chemical Plant effluent;
  - c. Sauget P/C plant continue "primary" treatment for metals, oil & grease and pH adjustment.
4. 1977 Regional Treatment Agreement signed by Village of Cahokia, City of East St. Louis, Commonfields of Cahokia and Village of Sauget. Sauget is designated local lead agency for purposes of construction grant and permit.

B. The Existing Plants - pre 1977

1. Primary Facilities
  - a. Metro East Sanitary District East St. Louis
  - b. Metro East Sanitary District Cahokia
2. Sauget P/C Plant
  - a. Original facility
  - b. Industrial upgrade

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### C. The American Bottoms Regional Treatment Facility

#### 1. Construction grants awarded starting in 1978

- a. Step 2 design grant July 11, 1978
- b. Step 1 planning grants August 7, 1978,  
November 25, 1980
- c. Step 3 construction grant June 30, 1981

#### 2. Industrial backing of the local portion of the Bond

- a. Sauget Sanitary Research and Development Association
- b. Technical Advisory Committee

#### 3. Design and intended operation of the facility (See attached diagrams)

- a. Industrial wastewater
- b. Zimpro Innovative Technology

#### 4. State and EPA roles in design, construction

### D. Permit History

- 1. 1974 P/C plant permit
- 2. 1979 P/C plant permit and IPCB variances
- 3. other pre 1985 attempts
- 4. 1985 notice of permit
  - a. 1 permit for both plants
  - b. extensive Feb. 1986 EPA comments
    - i) toxicity limits
    - ii) pretreatment program (more below)
    - iii) extra priority pollutants

- 5. March 1986 issuance of 2 permits
- 6. IPCB appeal of permits
- 7. Compliance status

### E. Pretreatment Issues

- 1. Large industrial contributions: Monsanto, Cerro Copper, Amax Zinc, Pfizer Chemical, Midwest Rubber, Chemtech Chemicals, Ethyl petroleum Additives, Clayton Chemical, and Trade Waste Incineration

- 2. Compliance Actions with respect to Categorical Industrial Users

*-Cerro, Pfizer, Amax Zinc: local limit thru pretreatment referral*

- 3. Status of pretreatment program submissions

### F. Administrative Order V-W-87-A0-39 (attached)

→ Requires

*Tom  
These are  
issues you  
should be  
prepared  
to address.  
legal issue  
questions*

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G. Other Regulatory Issues

1. Possible superfund sites
2. RCRA permit by rule Sauget P/C plant?

H. Environmental Consequences

1. Receiving stream - Mississippi River
2. 1983 FDA fish tissue analysis
3. Caged fish study

II. Where do we go from here?

- A. Compliance Actions
- B. Permit Actions
- C. Audit Resolution

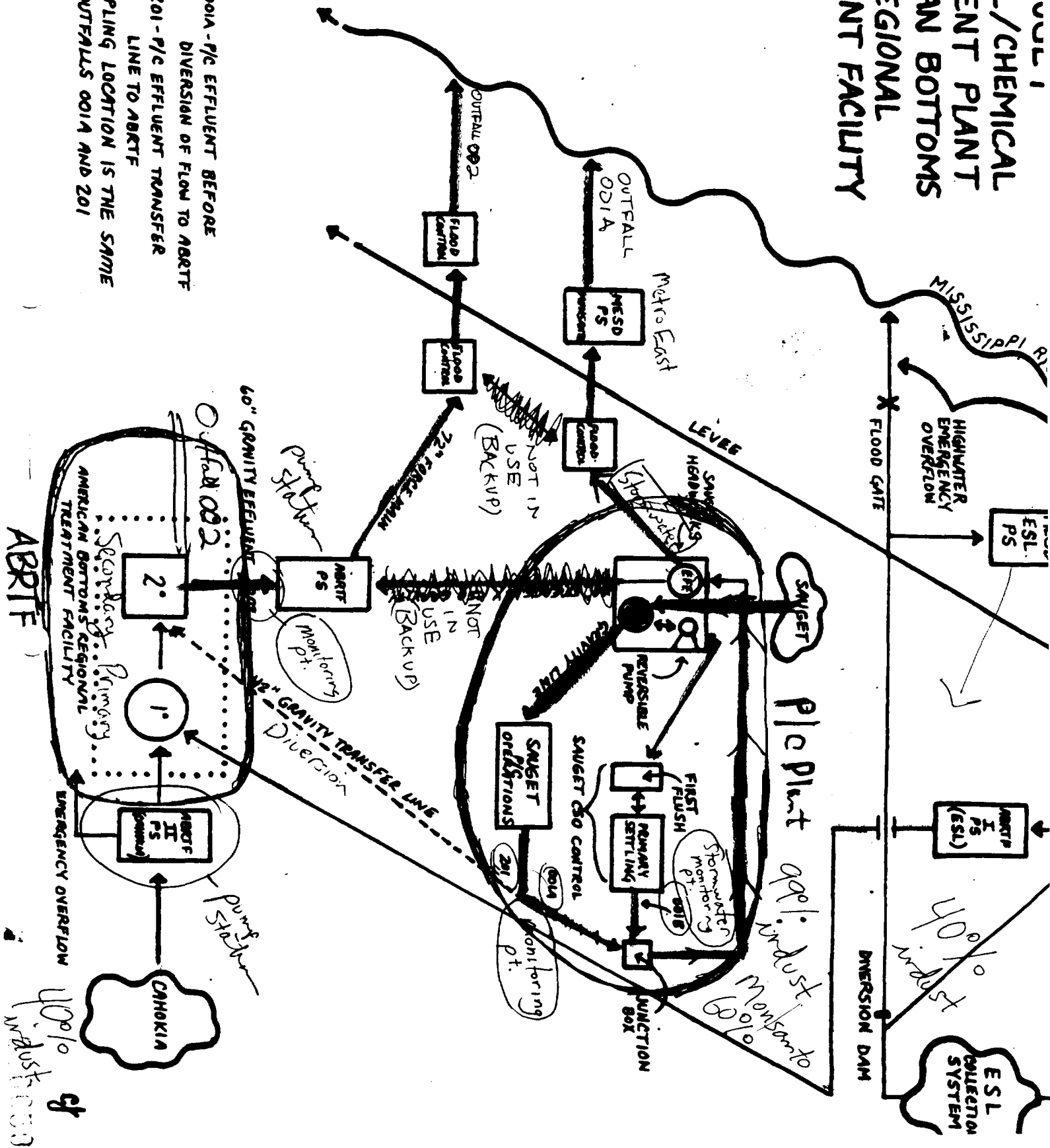
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# PHYSICAL/CHEMICAL TREATMENT PLANT AMERICAN BOTTOMS REGIONAL TREATMENT FACILITY

P/C influent  
A/B influent  
effluent

## LEGEND

+++ + 001A - P/C EFFLUENT BEFORE  
DIVERSION OF FLOW TO ABRTF  
----- 201 - P/C EFFLUENT TRANSFER  
LINE TO ABRTF  
THE SAMPLING LOCATION IS THE SAME  
FOR OUTFALLS 001A AND 201



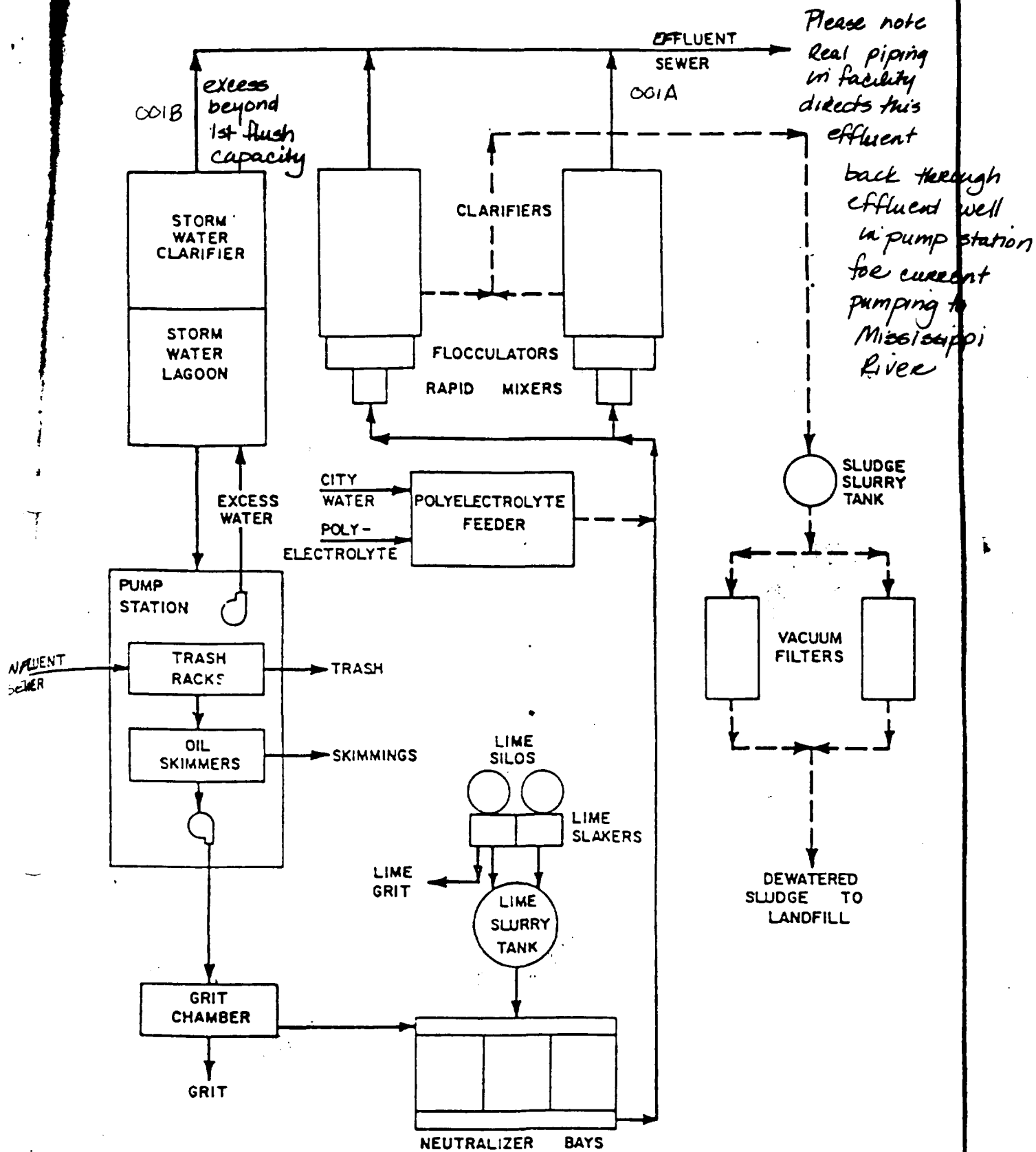


FIGURE 1  
VILLAGE OF SAUGET  
PHYSICAL - CHEMICAL  
SEWAGE TREATMENT PLANT

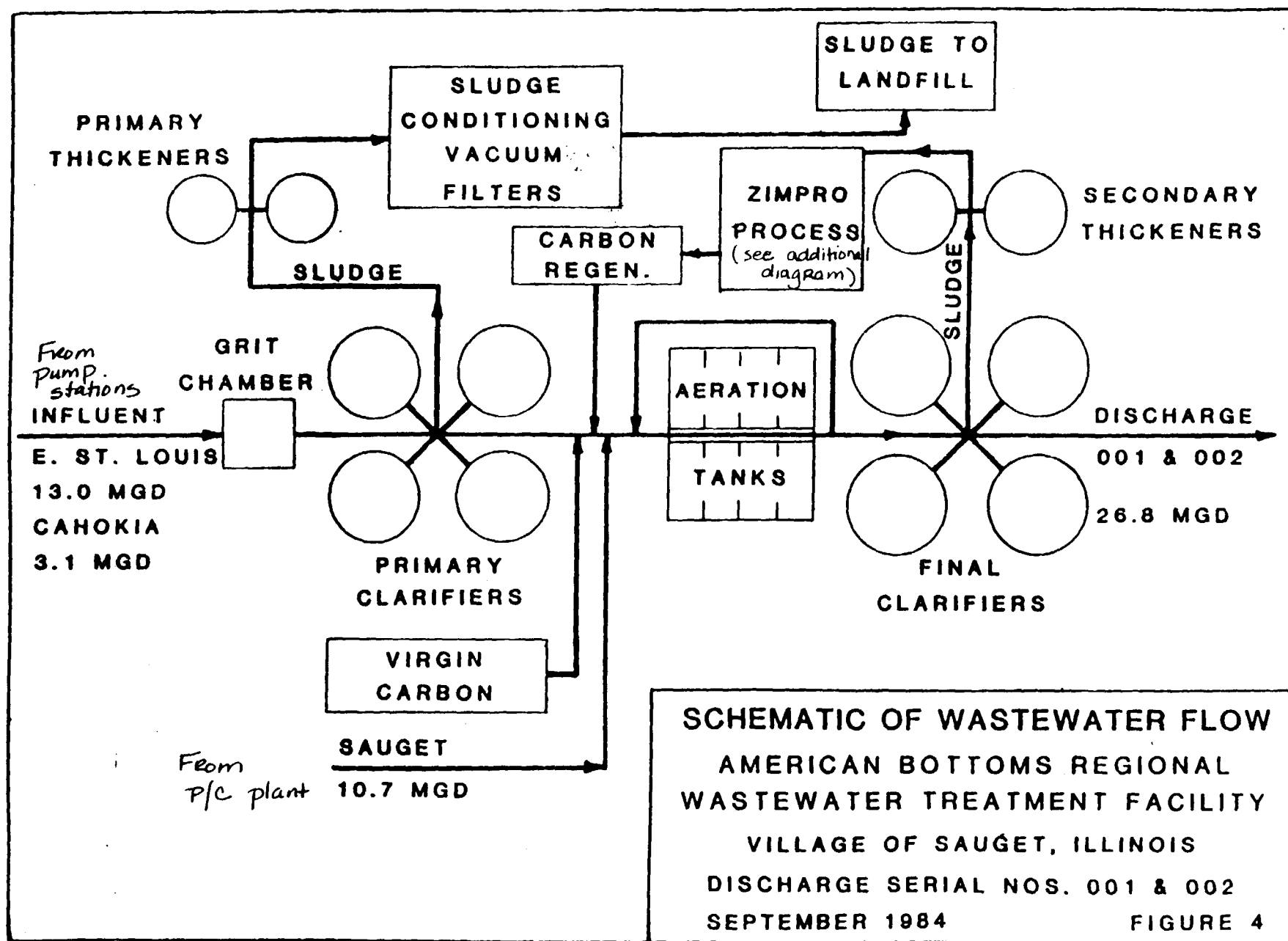


DISCHARGE WEIRS AT SAUGET PHYSICAL/CHEMICAL PLANT

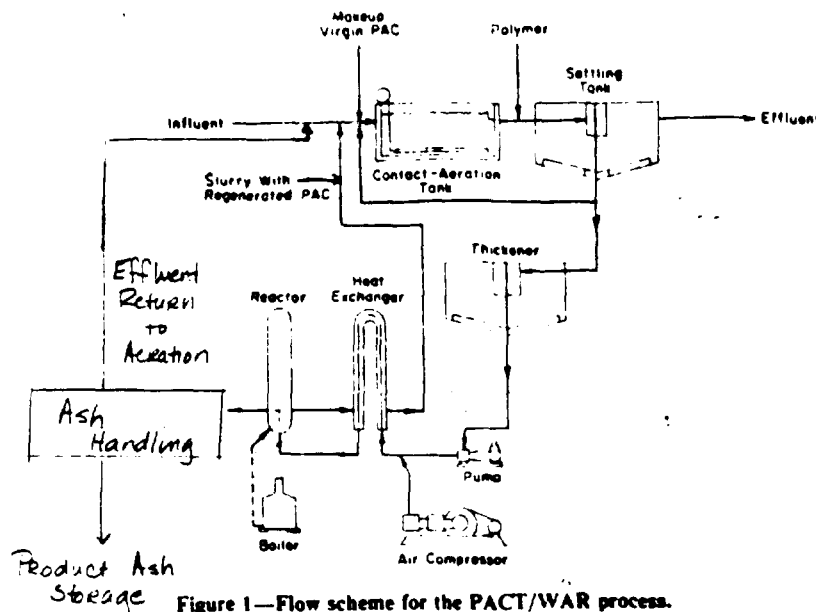
OCTOBER 22, 1986

This is currently discharged through the MESD pump station "Monsanto"  
directly to the Mississippi River.

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#### ZIMPRO PROBLEMS AT SAUGET

- 1) Not all ash can be removed by any ash handling system.
- 2) Effluent from plant degrades when ash level within the overall system especially the aeration basins goes over 40 - 60% level.
- 3) Zimpro predicts that ash system installed will not be able to remove enough ash from system to keep effluent quality from degrading (meeting effluent limits).
- 4) Zimpro has proposed replacing current lamellae separator with new Differential Sedimentation and Elutriation (DSE) system.
- 5) Other alternatives have not been investigated except wasting of carbon from system (\$\$\$\$\$).

PACT = Powdered Activated Carbon Treatment

WAR = Wet Air Regeneration (of the Activated Carbon)

# Village of Sauget

## PROGRAM PERSONNEL

### VILLAGE BOARD

owns operates plant  
Joe Hawkins, Jr.  
Maurice McDaniel  
Richard Sauget  
Billy Bethea, Jr.  
Carl Batson  
Edward Holton  
Paul Sauget, President

### SSDRA BOARD OF DIRECTORS

Jack Molloy - Monsanto  
Steve Mueller  
Paul Tandler - Cerro  
William Defer - Monsanto  
Dick Bentle  
Jovencio Bagarinao  
Gene Forneris  
Bob Murphy  
Warren Smull - Monsanto  
Paul Sauget - Monsanto

5 Monsanto reps

1 Ethyl

1 Mid West Rubber

1 Cerro Copper

1 mayor = president Village Board

1 Amax Zinc

set up by 1977 Regional Agreement  
to advise Village Board on technical  
matters relative to ABET, forum for  
citizen's complaints, public hearings,  
negotiations

### REGIONAL TECHNICAL ADVISORY COMMITTEE

John Pfeffer } 1 each Cahokia,  
Joe Linigni } Commonfields, East St. Louis  
Mike Preston }  
Roger Rader - Pfizer, East St. Louis  
Steve Smith - Monsanto

under contract to build, run plant from Village  
Board w/ input from TAC

### SSDRA TREASURER

William Defer - Monsanto

### SSDRA ENGINEER

Brett Hanke - Monsanto

### REGIONAL PLANT MANAGER

George Schillinger

### P-CHEM PLANT MANAGER

Carl Marcianite

### VILLAGE ATTORNEY

Harold Baker, Jr.

Project Mgr.

Steve Smith Monsanto

## Bond backers for A/B plant

Monsanto  
Cerro  
Pfizer  
Amax(?)

30% of total  
40% cost Village

Attorney  
Baker

Village Board

SSDRA

Technical Advisory  
Committee

Project Mgr.  
Steve Smith

P Chem

Plant Mgr Carl  
Marcianite

A-B

Plant Mgr George  
Schillinger

SSDRA

Engr Brett Hanke

Sauget San Dev/Res. Assn

Total 84,000

Service area

- East St Louis

- Centerville Township  
Cahokia & Commonfields  
Dupo